

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	3	(course with alignment) near5 (marking) and waveguide and (optical with coupling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/31 10:50		
2	BRS	L2	55997	(course with alignment) near5 (marking) (optical with coupling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/31 10:51		
3	BRS	L3	3	(course with alignment) near5 (marking) and (optical with coupling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/31 10:52		
4	BRS	L5	14	(course with alignment) near5 (marking)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/31 10:53		

	Errors
1	0
2	0
3	0
4	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	3	lithograph\$ near optic\$ near waveguide	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/24 10:51		

	Errors
1	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	1	6636671.pn.	USPAT; US-PGPUB	2004/08/24 09:10		
2	BRS	L2	5	(lithographically near4 marking) same (waveguide)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/24 09:11		

	Errors
1	0
2	0

For Serial no. 10/ 672,329

Set	Items	Description
S1	149595	LITHOGRAP?
S2	4539287	OPTIC?
S3	401472	WAVE()GUIDE? OR WAVEGUIDE?
S4	2757	S1 AND S2 AND S3
S5	433	S1(3N)S2(3N)S3
S6	58	S1(N)S2(N)S3
S7	53	RD (unique items)
S8	35	S7 AND PY<=2000
S9	0	S8 AND MARK?
S10	4	S8 AND CHANNEL?
S11	31	S8 NOT S10
? show files		
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File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W3	(c) 2004 Inst for Sci Info
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.
File	94:JICST-EPlus 1985-2004/Aug W1	(c)2004 Japan Science and Tech Corp(JST)
File	92:IHS Intl.Stds.& Specs. 1999/Nov	(c) 1999 Information Handling Services
File	144:Pascal 1973-2004/Aug W3	(c) 2004 INIST/CNRS
File	647:CMP Computer Fulltext 1988-2004/Aug W3	(c) 2004 CMP Media, LLC
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File	35:Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Aug W4	(c) 2004 BLDSC all rts. reserv.
File	103:Energy SciTec 1974-2004/Aug B1	(c) 2004 Contains copyrighted material
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File	347:JAPIO Nov 1976-2004/Apr(Updated 040802)	(c) 2004 JPO & JAPIO
File	202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12	(c) 2004 EBSCO Publishing
File	239:Mathsci 1940-2004/Oct	(c) 2004 American Mathematical Society
File	95:TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK
File	25:Weldasearch 1966-2003/Dec	(c) 2004 TWI Ltd
File	62:SPIN(R) 1975-2004/Jun W4	(c) 2004 American Institute of Physics
File	96:FLUIDEX 1972-2004/Aug	(c) 2004 Elsevier Science Ltd.
File	98:General Sci Abs/Full-Text 1984-2004/Jul	(c) 2004 The HW Wilson Co.
File	266:FEDRIP 2004/Jun	

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?

11/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1963912 NTIS Accession Number: AD-A308 781/4

Distributed Bragg Grating Integrated-Optical Filters: Synthesis and Fabrication

Massachusetts Inst. of Tech., Cambridge. Research Lab. of Electronics.

Corp. Source Codes: 001450082; 304050

Report No.: ARO-34906.2-EL

26 Jan 96 7p

Languages: English Document Type: Journal article

Journal Announcement: GRAI9620

Pub. in Jnl. of Vacuum Science Technology B, v13 n6 p2859-2864 Nov/Dec 1995. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

Descriptors: Gratings(Spectra); *Optical filters; Reprints; Silicon dioxide; Chemical vapor deposition; Substrates; Etching; X rays; **Optical waveguides** ; **Lithography** ; Electron beams; Optical interferometers; Optical analysis; Light transmission; Resonators; Design criteria; Bragg scattering; Waveguide filters

11/3,K/2 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1936822 NTIS Accession Number: AD-A300 345/6

Si/Ge Optical Bus Array and Binary Fan-out Hologram for Si-Based Wafer-Scale Optoelectronic Interconnects

(Bimonthly rept. 1 Dec 94-31 Jan 95)

Graham, L. ; Tang, S. ; Ershov, O. ; Chen, R. T.

Radiant Research Lab., Austin, TX.

Corp. Source Codes: 111549000; 429879

20 Feb 95 11p

Languages: English

Journal Announcement: GRAI9609

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NTIS Prices: PC A03/MF A01

Descriptors: Electrooptics; Signal processing; Optical equipment; Optimization; Computer aided design; Arrays; Chips(Electronics); Fabrication; Prototypes; Substrates; **Optical waveguides** ; **Lithography** ; Gratings(Spectra); Silicon; Circuit interconnections; Modules(Electronics); Wafers; Research management; Holograms

11/3,K/3 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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1905559 NTIS Accession Number: AD-A295 123/4

Solid State Research

(Quarterly technical rept. no. 4, 1 Aug-31 Oct 94)
Shaver, D. C.
Massachusetts Inst. of Tech., Lexington. Lincoln Lab.
Corp. Source Codes: 009875001; 207650
Report No.: ESC-TR-94-127
15 Nov 94 60p
Languages: English
Journal Announcement: GRAI9523
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A04/MF A01

...Descriptors: Quantum wells; Gallium arsenides; Aluminum gallium arsenides; Continuous waves; Chips(Electronics); Integrated circuits; Semiconductors; Etching; **Optical waveguides**; **Lithography**; Military research; Electric current; Electrical impedance; Analog systems; Solid state physics

11/3,K/4 (Item 4 from file: 6)
DIALOG(R)File 6:NTIS
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1759517 NTIS Accession Number: AD-A269 024/6
Photonics in Switching. Organization of the 1993 Photonics Science Topical Meetings Held in Palm Springs, California on March 15 - 17, 1993. Technical Digest
(Final rept)
Quinn, J. W.
Optical Society of America, Washington, DC.
Corp. Source Codes: 044811000; 392813
Sponsor: Air Force Office of Scientific Research, Bolling AFB, DC.
Report No.: AFOSR-TR-93-0637
17 Mar 93 240p
Languages: English Document Type: Conference proceeding
Journal Announcement: GRAI9324
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A11/MF A03

...Descriptors: switching; Light modulators; Electrooptics; Quantum electronics; Pixels; Amplifiers; Networks; Quantum wells; Pulsed lasers; X rays; **Lithography**; **Optical waveguides**; **Semiconduc** tors; Acoustooptics; Parallel processing; Crosstalk; Soft x rays

11/3,K/5 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05786260 E.I. No: EIP01025527734
Title: Near-field microscopy of photonic devices
Author: Goldberg, Bennett B.
Corporate Source: Boston Univ, Boston, MA, USA
Conference Title: 13th Annual Meeting. IEEE Lasers and Electro-Optics Society 2000 Annual Meeting (LEOS 2000)
Conference Location: Rio Grande

Source: Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS v 2 2000. IEEE, Piscataway, NJ, USA,00CB37080. p 426-427
Publication Year: 2000
CODEN: CPLSE4 ISSN: 1092-8081
Language: English

* Descriptors: Optical devices; Near field scanning optical microscopy; Integrated optics ; Waveguides ; Lithography ; Surface topography

11/3,K/6 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05785937 E.I. No: EIP01025527476

* Title: Methods for passive fiber chip coupling of integrated optical devices

Author: Hauffe, R.; Siebel, U.; Petermann, K.; Moosburger, R.; Kropp, J.-R.; Arndt, F.

Corporate Source: Technical Univ of Berlin, Berlin, Ger

Conference Title: 50th Electronic Components and Technology Conference

Conference Location: Las Vegas, NV, USA

Source: Proceedings - Electronic Components and Technology Conference 2000. IEEE, Piscataway, NJ, USA,00CB37070. p 238-243

Publication Year: 2000

CODEN: PECCA7 ISSN: 0569-5503

Language: English

...Descriptors: optoelectronics; Optical fibers; Electronics packaging; Wavelength division multiplexing; Silicon on insulator technology; Flip chip devices; Optical waveguides ; Lithography

11/3,K/7 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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05733101 E.I. No: EIP00125434912

Title: Anisotropically etched Si molds for fabricating fine optical components

Author: Li, Y.; Fujii, T.; Sasaki, M.; Hane, K.

Corporate Source: Tohoku Univ, Sendai, Jpn

Conference Title: Micromachining and Microfabrication Process Technology VI

Conference Location: Santa Clara, CA, USA Conference Date: 20001218-20001220

E.I. Conference No.: 57690

Source: Proceedings of SPIE - The International Society for Optical Engineering v 4174 2000. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 77-84

Publication Year: 2000

CODEN: PSISDG ISSN: 0277-786X

Language: English

Descriptors: Micromachining; Anisotropy; Semiconducting silicon; Optical fiber coupling; Diffraction gratings; Reactive ion etching; Electron beam lithography ; Optical waveguides ; Nanotechnology; Photolithography

11/3,K/8 (Item 4 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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05607889 E.I. No: EIP00075246305

Title: Chemical and biological applications of porous silicon technology
Author: Stewart, Michael P.; Buriak, Jillian M.
Corporate Source: Purdue Univ, West Lafayette, IN, USA
Source: Advanced Materials v 12 n 12 2000. p 859-869
Publication Year: 2000
CODEN: ADVMEW ISSN: 0935-9648
Language: English

Descriptors: Porous silicon; Photoluminescence; Surface chemistry;
Crystal atomic structure; Biocompatibility; Biosensors; Chemical sensors;
Catalyst supports; **Lithography ; Optical waveguides**

11/3,K/9 (Item 5 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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05501028 E.I. No: EIP99035082809

Title: Atom optics: basics and applications
Author: Pfau, T.
Corporate Source: Universitaet Konstanz, Konstanz, Ger
Conference Title: Proceedings of the 1999 Pacific Rim Conference on
Lasers and Electro-Optics (CLEO/PACIFIC Rim '99)
Conference Location: Seoul, South Korea Conference Date:
19990830-19990903
E.I. Conference No.: 56216
Source: Pacific Rim Conference on Lasers and Electro-Optics, CLEO -
Technical Digest v 2 1999. IEEE, Piscataway, NJ, USA. p 248-249
Publication Year: 1999
CODEN: 002223
Language: English

Descriptors: Particle optics; Atomic physics; Interferometers;
Lithography ; Optical waveguides ; Diffraction; Tungsten; Electric
potential; Electrodes; Electric field effects

11/3,K/10 (Item 6 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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05412856 E.I. No: EIP99114893705

Title: Highly strained GaInAs/GaAs QW for 1.2 μ m surface emitting lasers
Author: Koyama, F.; Schlenker, D.; Miyamoto, T.; Chen, Z.; Matsutani, A.;
Sakaguchi, T.; Iga, K.
Corporate Source: Tokyo Inst of Technology, Yokohama, Jpn
Conference Title: Proceedings of the 1999 IEEE/LEOS Summer Topical
Meeting on Nanostructures and Quantum Dots
Conference Location: San Diego, CA, USA Conference Date:
19990726-19990727
E.I. Conference No.: 55505
Source: LEOS Summer Topical Meeting 1999. p 23-24
Publication Year: 1999
ISSN: 1099-4724
Language: English

...Descriptors: gallium compounds; Semiconducting gallium arsenide; Semiconductor quantum wells; Single mode fibers; Metallorganic chemical vapor deposition; **Optical waveguides** ; **Lithography** ; Etching; Copper

11/3,K/11 (Item 7 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04978743 E.I. No: EIP98034133694
Title: Efficient frequency doubling of 1.5 μ m femtosecond laser pulses in quasi-phase-matched optical fibers
Author: Pruneri, V.; Bonfrate, G.; Kazansky, P.G.; Simonneau, C.; Vidakovic, P.; Levenson, J.A.
Corporate Source: Southampton Univ, Southampton, Engl
Source: Applied Physics Letters v 72 n 9 Mar 2 1998. p 1007-1009
Publication Year: 1998
CODEN: APPLAB ISSN: 0003-6951
Language: English

...Descriptors: optics; Optical fibers; Fiber lasers; Second harmonic generation; Laser pulses; Diffraction gratings; Glass fibers; Nonlinear optics ; **Lithography** ; **Optical waveguides**

11/3,K/12 (Item 8 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04667291 E.I. No: EIP97043616278
Title: Semiconductor laser with tapered-rib adiabatic-following fiber coupler for expanded output-mode diameter
Author: Vawter, G.A.; Smith, R.E.; Hou, H.; Wendt, J.R.
Corporate Source: Sandia Natl Lab, Albuquerque, NM, USA
Source: IEEE Photonics Technology Letters v 9 n 4 Apr 1997. p 425-427
Publication Year: 1997
CODEN: IPTLEL ISSN: 1041-1135
Language: English

Descriptors: Semiconductor lasers; Optical fiber coupling; **Optical waveguides** ; **Lithography** ; Plasma applications; Quantum well lasers; Epitaxial growth; Light amplifiers; Quantum optics

11/3,K/13 (Item 9 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04580726 E.I. No: EIP96123473999
Title: Surface-emitted blue light from left bracket 112 right bracket -oriented (In,Ga)As/GaAs quantum well edge-emitting lasers
Author: Ramos, P.A.; Towe, E.
Corporate Source: Univ of Virginia, Charlottesville, VA, USA
Source: Applied Physics Letters v 69 n 22 Nov 25 1996. p 3321-3323
Publication Year: 1996
CODEN: APPLAB ISSN: 0003-6951
Language: English

...Descriptors: well lasers; Second harmonic generation; Semiconducting gallium compounds; Laser pulses; Current density; Molecular beam epitaxy;

Lithography ; Waveguides ; Optical resonators ; Mirrors

11/3,K/14 (Item 10 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04398751 E.I. No: EIP96033065924

Title: Chirped DFB gratings using bent waveguides to tailor specific laser properties

Author: Hillmer, Hartmut
Corporate Source: Deutsche Telekom, Darmstadt, Ger
Conference Title: Fifth Int. Conference on Industrial Lasers and Laser Applications '95
Conference Location: Shatura, Moscow, Russia Conference Date: 19950624
E.I. Conference No.: 22479
Source: Proceedings of SPIE - The International Society for Optical Engineering v 2713 1996. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 139-149
Publication Year: 1996
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-2088-3
Language: English

Descriptors: Semiconductor lasers; Diffraction gratings; Optical waveguides ; Lithography ; Masks; Silicon wafers

11/3,K/15 (Item 11 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

03941066 E.I. No: EIP94091388785

Title: Application of three-dimensional micro-optical components formed by lithography, electroforming, and plastic molding

Author: Testorf, M.; Sinzinger, S.; Muller, A.; Moisel, J.; Kufner, S.; Kufner, M.; Brener, K.H.; Gottert, J.; Mohr, J.
Corporate Source: Univ Erlangen-Nurnberg, Erlangen, Ger
Source: Applied Optics v 32 n 32 Nov 10 1993. p 6464-6469
Publication Year: 1993
CODEN: APOPAI ISSN: 0003-6935
Language: English

Descriptors: Optical waveguides ; Lithography ; Electroforming; Optical devices; Plastics; Molding

11/3,K/16 (Item 12 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03494438 E.I. Monthly No: EI9210127196

Title: Coupling and crosstalk between high speed interconnects in ultralarge scale integrated circuits.

Author: Bandyopadhyay, Supriyo
Corporate Source: Dept of Electr Eng, Univ of Notre Dame, IN, USA
Source: IEEE Journal of Quantum Electronics v 28 n 6 Jun 1992 p 1554-1561
Publication Year: 1992
CODEN: IEJQA7 ISSN: 0018-9197
Language: English

...Descriptors: Fabrication; QUANTUM THEORY; LITHOGRAPHY ; WAVEGUIDES, OPTICAL

11/3,K/17 (Item 13 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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03314420 E.I. Monthly No: EI9110122499
Title: Semiconductor photonic integrated circuits.
Author: Koch, Thomas L.; Koren, Uziel
Corporate Source: AT&T Bell Lab, Holmdel, NJ, USA
Source: IEEE Journal of Quantum Electronics v 27 n 3 Mar 1991 p 641-653
Publication Year: 1991
CODEN: IEJQA7 ISSN: 0018-9197
Language: English

Descriptors: INTEGRATED OPTICS; OPTOELECTRONIC DEVICES; WAVEGUIDES , OPTICAL ; LITHOGRAPHY ; LASERS, SEMICONDUCTOR; SIGNAL RECEIVERS

11/3,K/18 (Item 14 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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02650396 E.I. Monthly No: EI8810095531
Title: PROPAGATION OF SURFACE ELECTROMAGNETIC WAVES IN A DOUBLE OPEN WAVEGUIDE.
Author: Lyndin, N. M.; Surov, S. P.; Sychugov, V. A.
Source: Soviet Physics - Lebedev Institute Reports (English Translation of Sbornik Kratkie Soobshcheniya po Fizike. AN SSSR. Fizicheskii Institut im. N.N. Lebedeva) n 12 1987 p 6-9
Publication Year: 1987
CODEN: SPLRD6 ISSN: 0147-6858
Language: English

...Descriptors: Propagation in Guides; SURFACE WAVES; LITHOGRAPHY ; WAVEGUIDES, OPTICAL

11/3,K/19 (Item 15 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

02335344 E.I. Monthly No: EI8711113072
Title: LOW THRESHOLD CURRENT AlGaAs/GaAs RIB-WAVEGUIDE SEPARATE-CONFINEMENT-HETEROSTRUCTURE DISTRIBUTED-FEEDBACK LASERS GROWN BY METALORGANIC CHEMICAL VAPOR DEPOSITION.
Author: Honda, Kazuo; Hirata, Shoji; Ohata, Toyoharu; Horii, Shinichi; Kojima, C.
Corporate Source: Sony Corp, Yokohama, Jpn
Source: IEEE Journal of Quantum Electronics v QE-23 n 6 Jun 1987 p 839-842
Publication Year: 1987
CODEN: IEJQA7 ISSN: 0018-9197
Language: ENGLISH

...Descriptors: Fabrication; SEMICONDUCTING ALUMINUM COMPOUNDS; WAVEGUIDES , OPTICAL ; LITHOGRAPHY --

11/3,K/20 (Item 16 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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02093079 E.I. Monthly No: EIM8605-032112
Title: **E-BEAM TOOL REQUIREMENTS FOR NANOLITHOGRAPHY.**
Author: Cruttwell, Ian A.; Colbran, William V.; Wallman, Bernard A.
Corporate Source: Cambridge Instruments Ltd, Cambridge, Engl
Conference Title: Electron-Beam, X-Ray, and Ion-Beam Techniques for
Submicrometer Lithographies IV.
Conference Location: Santa Clara, CA, USA Conference Date: 19850314
E.I. Conference No.: 07161
Source: Proceedings of SPIE - The International Society for Optical
Engineering v 537. Publ by SPIE, Bellingham, WA, USA p 2-6
Publication Year: 1985
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-89252-572-X
Language: English

Identifiers: NANOLITHOGRAPHY; E-BEAM TOOL REQUIREMENTS; SYSTEM
REQUIREMENTS AND IMPLEMENTATION; INTEGRATED **OPTICAL WAVEGUIDE**
LITHOGRAPHY ; SPECTRAL DENSITY FUNCTION; ELECTRON BEAM LITHOGRAPHY

11/3,K/21 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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05230007 Genuine Article#: VJ628 No. References: 5
Title: **TERAHERTZ WAVE-GUIDE COMPONENTS FABRICATED USING A 3D X-RAY
MICROFABRICATION TECHNIQUE**
Author(s): MOON SW; MANN CM; MADDISON BJ; TURCU ICE; ALLOT R; HUQ SE; LISI
N
Corporate Source: RUTHERFORD APPLETON LAB/DIDCOT OX11 0QX/OXON/ENGLAND/
Journal: ELECTRONICS LETTERS, 1996 , V32, N19 (SEP 12), P1794-1795
ISSN: 0013-5194
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

, 1996

11/3,K/22 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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02076993 JICST ACCESSION NUMBER: 94A0598412 FILE SEGMENT: JICST-E
Photo-optical effect of polymers containing norbornadiene moieties.
MORINO S (1); HORIE K (1); WATANABE T (2); MAGAYA Y (3); YAMASHITA T (4);
NISHIKUBO T (5)
(1) Univ. Tokyo, Tokyo, JPN; (2) Suzuki Motor Corp., JPN; (3) Miyazaki
prefectural government, JPN; (4)Univ. Tokyo, Tokyo, JPN; (5) Kanagawa
Univ., Yokohama, JPN
J Photopolym Sci Technol, 1994 , VOL.7,NO.1, PAGE.121-126, FIG.7, REF.7
JOURNAL NUMBER: L0202AAN ISSN NO: 0914-9244 CODEN: JSTEE
UNIVERSAL DECIMAL CLASSIFICATION: 544.23-16:535/538
LANGUAGE: English COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

1994

...ABSTRACT: changes of films containing norbornadiene moiety were measured, and the applicability of these materials to **optical waveguide lithography** was examined. Refractive indices of PMMA films containing QCA were smaller than those of PMMA...

11/3,K/23 (Item 1 from file: 144)

DIALOG(R) File 144:Pascal

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* 14946614 PASCAL No.: 01-0098367

High T SUB g polyarylate thin films for photonic device applications
Proceedings of the Korea-Japan Joint Forum 1999: Organic Materials for Electronics and Photonics, Kyongju, Korea, September 9-11, 1999

SUGIHARA Okihiro; TOMIKI Masahiro; FUJIMURA Hisashi; EGAMI Chikara;
OKAMOTO Naomichi; FUJIWARA Masaaki; YASUE Kenji

SASABE Hiroyuki, ed

Faculty of Engineering, Shizuoka University, 3-5-1 Johoku, Hamamatsu
432-8561, Japan; Research and Development Center, Unitika LTD., 23
Kozakura, Uji 611-0021, Japan

Korea-Japan Joint Forum 1999 (Kyongju KOR) 1999-09-09

Journal: Molecular crystals and liquid crystals science and technology.
Section A, Molecular crystals and liquid crystals, 2000 , 349 111-114
Language: English

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2000

English Descriptors: Experimental study; Optical materials; Thin films;
Electron beam **lithography** ; **Optical waveguides** ; Organic compounds;
Arylate polymer; Thermal stability; Optical properties

11/3,K/24 (Item 2 from file: 144)

DIALOG(R) File 144:Pascal

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14815700 PASCAL No.: 00-0498155

Polymer waveguide devices with passive pigtailling : an application of LIGA technology

Proceedings of the European Materials Research Society 1999 Spring Meeting, Symposium N: Molecular Photonics at the Interface of Physics, Chemistry and Biology, Strasbourg, France, 1-4 June, 1999

BAUER Hans-Dieter; EHRFELD Wolfgang; HARDER Michael; PAATZSCH Thomas;
POPP Martin; SMAGLINSKI Ingo

LEDOUX-RAK Isabelle, ed; BAO Zhenan, ed

Institut fuer Mikrotechnik Mainz GmbH, Carl-Zeiss-Strasse 18-20, 55129
Mainz, Germany

Laboratoire de Photonique Quantique et Moleculaire, Ecole Normale
Superieure de Cachan, France; Lucent Technologies, Murray Hill, NJ, United
States

European Materials Research Society, Strasbourg, France

E-MRS 1999 Spring Meeting. Symposium N (Strasbourg FRA) 1999-06-01

Journal: Synthetic metals, 2000 , 115 (1-3) 13-20

Language: English

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2000

English Descriptors: Production process; Integrated **optics** ; **Waveguide** ;
Lithography ; Molding; Electroforming; Polymer; Preform

11/3,K/25 (Item 3 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2004 INIST/CNRS. All rts. reserv.

14757849 PASCAL No.: 00-0435767
Active and passive components of 3D integrated optics
Integrated optics devices IV : San Jose CA, 24-25 January 2000
WAECHTER C; BAUER T; CUMME M; DANNBERG P; ELFLEIN W; HENNIG T; STREPPPEL U
; KARTHE W
RIGHINI Giancarlo C, ed; HONKANEN Seppo, ed
Fraunhofer-Institute for Applied Optics and Precision Engineering,
Schillerstrasse 1, 07745 Jena, Germany; Institute of Applied Physics,
Friedrich-Schiller-University Jena, Max-Wien-Platz 1, 07743 Jena, Germany
International Society for Optical Engineering, Bellingham WA, United
States
Integrated optics devices. Conference, 4 (San Jose CA USA) 2000-01-24
Journal: SPIE proceedings series, 2000 , 3936 130-138
Language: English

Copyright (c) 2000 INIST-CNRS. All rights reserved.

2000

...English Descriptors: coupler; Spin-on coatings; Plastic coating;
Chemical vapor deposition; Patterning; Ultraviolet radiation; Reactive
ion etching; **Lithography** ; **Optical waveguide** ; **Active co mponent**;
Three dimensional model; Experimental study; Experimental result; Passive
component; Topological structure; Light interferometers...

11/3,K/26 (Item 4 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2004 INIST/CNRS. All rts. reserv.

14325976 PASCAL No.: 99-0534170
Fabrication techniques for grating-based optical devices
LIM Michael H; MURPHY T E; FERRERA J; DAMASK J N; SMITH Henry I
Department of Electrical Engineering and Computer Science, MIT,
Cambridge, Massachusetts 02139
Journal: Journal of vacuum science & technology. B. Microelectronics and
nanometer structures. Processing, measurement and phenomena, 1999 -11, 17
(6) 3208-3211
Language: English

Copyright (c) 1999 American Institute of Physics. All rights reserved.

1999 -11

...English Descriptors: Bragg gratings; Optical planar waveguides; Optical
fabrication; Nanotechnology; Electron beam lithography; X-ray lithography
; ultraviolet **lithography** ; **Optical waveguide** filters

11/3,K/27 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

012026290

WPI Acc No: 1998-443200/ 199838

XRPX Acc No: N98-345782

**Optically polymerisable resin composition for photosensitive printing
used in optical waveguide lithography of opto electronic device -
comprises semiconductor ultrasmall particle, solvent, monomer and
polymerisable initiator**

Patent Assignee: MITSUI PETROCHEM IND CO LTD (MITC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10186426	A	19980714	JP 96319186	A	19961129	199838 B

Priority Applications (No Type Date): JP 96282022 A 19961024

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10186426	A	4	G02F-001/35	

**Optically polymerisable resin composition for photosensitive printing
used in optical waveguide lithography of opto electronic device...**

11/3,K/28 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2004 FIZ TECHNIK. All rts. reserv.

01272860 E99010157220

**Silicon nitride microclips for the kinematic location of optic fibres in
silicon V-shaped grooves**

Bostock, RM; Collier, JD; Jansen, R-JE; Jones, R; Moore, DF; Townsend, JE
Univ. of Cambridge, GB; Cambridge Consultants, GB

Journal of Micromechanics and Microengineering, v8, n4, pp343-360, 1998

Document type: journal article Language: English

Record type: Abstract

ISSN: 0960-1317

1998

DESCRIPTORS: SEMICONDUCTOR TECHNOLOGY; SILICON NITRIDE; OPTICAL
WAVEGUIDES ; LITHOGRAPHY ; DIODE LASERS; MECHANICAL PROPERTIES

11/3,K/29 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01036362 M96100386622

**Fabrication of microoptical components and systems by the LIGA technique
(Herstellung mikrooptischer Komponenten und Systeme mit dem LIGA-Verfahren)**

Goetttert, J; Mohr, J; Mueller, A; Mueller, C

Forsch.-Zentrum Karlsruhe, D

Entropie, v31, n192/193, pp20-25, 1995

Document type: journal article Language: English

Record type: Abstract

ISSN: 0013-9084

1995

DESCRIPTORS: OPTICAL LENSES; MICROOPTICS; X RAY LITHOGRAPHY ; OPTICAL
WAVEGUIDES ; INTEGRATED OPTICS; SPECTROMETERS; LIGHT COHERENCE; ACRYL GLASS
; FLUOROCARBON RESINS; OPTICAL FIBER COUPLERS

11/3,K/30 (Item 1 from file: 62)
DIALOG(R)File 62:SPIN(R)
(c) 2004 American Institute of Physics. All rts. reserv.

00864755

Fabrication techniques for grating-based optical devices

Lim, Michael H. ; Murphy, T. E. ; Ferrera, J. ; Damask, J. N. ; Smith, Henry I.

Department of Electrical Engineering and Computer Science, MIT, Cambridge, Massachusetts 02139

J. VAC. SCI. TECHNOL. B; 17(6),3208-3211 (Nov. 1999) CODEN: JVTBD

19991100

Descriptors: Bragg gratings ; optical planar waveguides ; optical fabrication ; nanotechnology ; electron beam lithography ; X-ray lithography ; ultraviolet lithography ; optical waveguide filters

11/3,K/31 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2004 The HW Wilson Co. All rts. reserv.

04254518 H.W. WILSON RECORD NUMBER: BGSA00004518

Mirrorless lasing from mesostructured waveguides patterned by soft lithography.

Yang, Peidong

Wirnsberger, Gernot; Huang, Howard C

Science (Science) v. 287 no5452 (Jan. 21 2000) p. 465-7

SPECIAL FEATURES: bibl il ISSN: 0036-8075

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

DESCRIPTORS:

Optical waveguides ; Lithography ; Silica; Rhodamine 2000

?

Set	Items	Description
S1	149595	LITHOGRAP?
S2	4539287	OPTIC?
S3	401472	WAVE()GUIDE? OR WAVEGUIDE?
S4	2757	S1 AND S2 AND S3
S5	433	S1(3N)S2(3N)S3
S6	58	S1(N)S2(N)S3
S7	53	RD (unique items)
S8	35	S7 AND PY<=2000
S9	0	S8 AND MARK?
S10	4	S8 AND CHANNEL?
S11	31	S8 NOT S10
S12	42333	S3 AND (GLASS? OR SILICON?)
S13	20930	S3 (6N)(GLASS? OR SILICON?)
S14	386	S1 AND S2 AND S13
S15	94	S1 (6N) S2 (6N)S13
S16	77	S1 (4N) S2 (4N)S13
S17	58	S1 (3N) S2 (3N)S13
S18	52	RD (unique items)
S19	45	S18 NOT S8
S20	21	S19 AND PY<=2000
? show files		
File	2:INSPEC 1969-2004/Aug W3	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Aug W3	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:EI Compendex(R) 1970-2004/Aug W3	(c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W3	(c) 2004 Inst for Sci Info
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.
File	94:JICST-EPlus 1985-2004/Aug W1	(c)2004 Japan Science and Tech Corp(JST)
File	92:IHS Intl.Stds.& Specs. 1999/Nov	(c) 1999 Information Handling Services
File	144:Pascal 1973-2004/Aug W3	(c) 2004 INIST/CNRS
File	647:CMP Computer Fulltext 1988-2004/Aug W3	(c) 2004 CMP Media, LLC
File	696:DIALOG Telecom. Newsletters 1995-2004/Aug 23	(c) 2004 The Dialog Corp.
File	35:Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Aug W4	(c) 2004 BLDSC all rts. reserv.
File	103:Energy SciTec 1974-2004/Aug B1	(c) 2004 Contains copyrighted material
File	350:Derwent WPIX 1963-2004/UD,UM &UP=200454	(c) 2004 Thomson Derwent
File	347:JAPIO Nov 1976-2004/Apr(Updated 040802)	(c) 2004 JPO & JAPIO
File	202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12	(c) 2004 EBSCO Publishing
File	239:Mathsci 1940-2004/Oct	(c) 2004 American Mathematical Society
File	95:TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK

File 25:Weldasearch 1966-2003/Dec
(c) 2004 TWI Ltd
File 62:SPIN(R) 1975-2004/Jun W4
(c) 2004 American Institute of Physics
File 96:FLUIDEX 1972-2004/Aug
(c) 2004 Elsevier Science Ltd.
File 98:General Sci Abs/Full-Text 1984-2004/Jul
(c) 2004 The HW Wilson Co.
File 266:FEDRIP 2004/Jun
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?

20/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5184763 INSPEC Abstract Number: A9606-4282-001, B9603-4140-047
Title: Distributed Bragg grating integrated-optical filters: synthesis and fabrication
Author(s): Wong, V.V.; Ferrera, J.; Damask, J.N.; Murphy, T.E.; Smith, H.I.; Haus, H.A.
Author Affiliation: Dept. of Electr. Eng. & Comput. Sci., MIT, Cambridge, MA, USA
Journal: Journal of Vacuum Science & Technology B (Microelectronics and Nanometer Structures) Conference Title: J. Vac. Sci. Technol. B, Microelectron. Nanometer Struct. (USA) vol.13, no.6 p.2859-64
Publisher: AIP for American Vacuum Soc,
Publication Date: Nov.-Dec. 1995 Country of Publication: USA
CODEN: JVTBD9 ISSN: 0734-211X
SICI: 0734-211X(199511/12)13:6L:2859:DBGI;1-P
Material Identity Number: C067-96001
U.S. Copyright Clearance Center Code: 0734-211X/95/13(6)/2859/6/\$6.00
Conference Title: 29th International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication
Conference Sponsor: American Vacuum Soc.; IEEE; Opt. Soc. America
Conference Date: 30 May-2 June 1995 Conference Location: Scottsdale, AZ, USA
Language: English
Subfile: A B
Copyright 1996, IEE

...Abstract: presented. We combine interferometric lithography, spatial-phase-locked electron-beam lithography, X-ray nanolithography, and **optical lithography** with silica-on-**silicon** waveguiding substrates to define **rib waveguides** and grating patterns that have multiple quarter-wave shifts along the grating length. Transmission filters...
1995

20/3,K/2 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05730951 E.I. No: EIP00125437445
Title: Waveguide at 1500 nm using photonic crystal structures in silicon on insulator wafers
Author: Loncar, Marko; Nedeljkovic, Dusan; Cotteverte, Jean-Charles; Doll, Theodor; Scherer, Axel; Gerretsen, Jurriaan; Pearsall, Thomas P.
Corporate Source: Dep of Electrical Engineering, Pasadena, CA, USA
Conference Title: Quantum Electronics and Laser Science Conference (QELS 2000)
Conference Location: San Francisco, CA, USA Conference Date: 20000507-20000512
E.I. Conference No.: 57599
Source: Conference on Quantum Electronics and Laser Science (QELS) - Technical Digest Series 2000. p 27
Publication Year: 2000
CODEN: 002097
Language: English

Descriptors: **Optical** materials; **Silicon** wafers; Integrated

optoelectronics; Crystal structure; **Optical waveguides** ; Electron beam lithography ; Etching; Silica; Semiconductor lasers; Light transmission

20/3,K/3 (Item 2 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05699611 E.I. No: EIP00115397014

Title: Macroporous silicon: Photonic crystal substrates at 1.55 μ m

Author: Rowson, S.; Chelnokov, A.; David, S.; Lourtioz, J.-M.

Corporate Source: Universite de Paris Sud, Orsay, Fr

Conference Title: 2000 Confernce on Lasers and Electro-Optics Europe (CLEO 2000)

Conference Location: Nice, France Conference Date: 20000910-20000915

E.I. Conference No.: 57529

Source: Conference on Lasers and Electro-Optics Europe - Technical Digest 2000. IEEE, Piscataway, NJ, USA, 00TH8505. p 322 CThE60

Publication Year: 2000

CODEN: 85PNA9

Language: English

Descriptors: **Optical waveguides** ; Photons; Substrates; Porous silicon ; Crystal lattices; **Lithography**

20/3,K/4 (Item 3 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05553900 E.I. No: EIP00055165064

Title: Fabrication of high aspect ratio photonic bandgap structures on silicon-on-insulator

Author: Naydenkov, Mikhail; Jalali, Bahram

Corporate Source: Univ of California Los Angeles, Los Angeles, CA, USA

Conference Title: Integrated Optics Devices IV

Conference Location: San Jose, CA, USA Conference Date: 19000124-19000125

E.I. Conference No.: 56741

Source: Proceedings of SPIE - The International Society for Optical Engineering v 3936 2000. p 33-39

Publication Year: 2000

CODEN: PSISDG ISSN: 0277-786X

Language: English

Descriptors: **Silicon** on insulator technology; Refractive index; **Optical waveguides** ; Electron beam lithography ; Light modulation; Anisotropy; Reactive ion etching; CMOS integrated circuits; Optoelectronic devices; Aspect ratio

20/3,K/5 (Item 4 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05490252 E.I. No: EIP00035072360

Title: Effects of grating heights on highly efficient unibond SOI waveguide grating couplers

Author: Ang, T.W.; Reed, G.T.; Vonsovici, A.; Evans, A.G.R.; Routley, P.R.; Josey, M.R.

Corporate Source: Univ of Surrey, Guildford, UK
Source: IEEE Photonics Technology Letters v 12 n 1 2000. p 59-61
Publication Year: 2000
CODEN: IPTLEL ISSN: 1041-1135
Language: English

Descriptors: **Optical waveguides** ; **Waveguide** couplers; Diffraction gratings; **Silicon** on insulator technology; Perturbation techniques; Rectangular **waveguides** ; Electron beam **lithography** ; Integrated **optics**

20/3,K/6 (Item 5 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05375127 E.I. No: EIP99104821974
Title: **Passive alignment of single-mode fibers to integrated polymer waveguide structures utilizing a single-mask process**
Author: Moosburger, R.; Hauffe, R.; Siebel, U.; Arndt, D.; Kropp, J.; Petermann, K.
Corporate Source: Technische Universitat Berlin, Berlin, Ger
Source: IEEE Photonics Technology Letters v 11 n 7 1999. p 848-850
Publication Year: 1999
CODEN: IPTLEL ISSN: 1041-1135
Language: English

Descriptors: Optical fiber coupling; **Optical** fiber fabrication; Single mode fibers; **Optical waveguides** ; Organic polymers; Photoresists; **Lithography** ; Semiconducting **silicon** ; Integrated **optics**

20/3,K/7 (Item 6 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05365155 E.I. No: EIP99094789735
Title: **Analytical approximation for the evaluation of the effect of fabrication error on the reflectivity of a Bragg mirror**
Author: Fiola, Roberto; Irace, Andrea; Cutolo, Antonello; Iodice, Mario
Corporate Source: Universita degli Studi di Napoli 'Federico II', Naples, Italy
Conference Title: Proceedings of the 1999 Diffractive and Holographic Technologies, Systems, and Spatial Light Modulators VI
Conference Location: San Jose, CA, USA Conference Date: 19990127-19990129
E.I. Conference No.: 55276
Source: Proceedings of SPIE - The International Society for Optical Engineering v 3633 1999. p 270-278
Publication Year: 1999
CODEN: PSISDG ISSN: 0277-786X
Language: English

Descriptors: Diffraction gratings; Mirrors; **Optical waveguides** ; Photolithography; Electron beam **lithography** ; **Silicon** on insulator technology; Error analysis; Numerical methods

20/3,K/8 (Item 7 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05299384 E.I. No: EIP99064700626

Title: Grating couplers using silicon-on-insulator

Author: Ang, T.W.; Reed, G.T.; Vonsovici, A.; Evans, A.G.R.; Routley, P.R.; Blackburn, T.; Josey, M.R.

Corporate Source: Univ of Surrey, Guildford, Engl

Conference Title: Proceedings of the 1999 Integrated Optics Devices III

Conference Location: San Jose, CA, USA Conference Date: 19990125-19990127

E.I. Conference No.: 55077

Source: Proceedings of SPIE - The International Society for Optical Engineering v 3620 1999. p 79-86

Publication Year: 1999

CODEN: PSISDG ISSN: 0277-786X

Language: English

Descriptors: **Waveguide** couplers; Diffraction gratings; Integrated optics ; **Silicon** on insulator technology; **Silicon** wafers; **Optical waveguides** ; Electron beam **lithography** ; Reactive ion etching; Thin films; Ion beams

20/3,K/9 (Item 8 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04929351 E.I. No: EIP98024042848

Title: Low cost integrated photonic systems

Author: Bostock, R.M.; Townsend, J.E.; Jones, R.; Jansen, R.-J.E.; Moore, D.F.

Corporate Source: Cambridge Consultants, Ltd, Cambridge, UK

Conference Title: Proceedings of the 1997 10th IEEE Lasers and Electro-Optics Society Annual Meeting, LEOS. Part 2 (of 2)

Conference Location: San Francisco, CA, USA Conference Date: 19971110-19971113

E.I. Conference No.: 47740

Source: Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS v 2 1997. IEEE, Piscataway, NJ, USA, 97CB36057. p 274-276

Publication Year: 1997

CODEN: CPLSE4 ISSN: 1092-8081

Language: English

Descriptors: Integrated optoelectronics; Substrates; **Optical** fibers; **Optical waveguides** ; Cost effectiveness; **Silicon** nitride; **Lithography** ; Surface tension; Thermal expansion

20/3,K/10 (Item 9 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04336252 E.I. No: EIP96013016370

Title: High-modulation-depth and short-cavity-length silicon Fabry-Perot modulator with two grating Bragg reflectors

Author: Liu, Mark Y.; Chou, Stephen Y.

Corporate Source: Univ of Minnesota, Minneapolis, MN, USA

Source: Applied Physics Letters v 68 n 2 Jan 8 1996. p 170-172

Publication Year: 1996

CODEN: APPLAB ISSN: 0003-6951

Language: English

Descriptors: Light modulators; Mirrors; Diffraction gratings;
Semiconducting **silicon** ; **Optical waveguides** ; Cavity resonators;
Electron beam **lithography** ; **Silicon** on insulator technology; Reactive
ion etching; Light modulation

20/3,K/11 (Item 10 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

03840511 E.I. No: EIP94041259089
Title: Electron lithography for optoelectronics
Author: Clements, S.J.; Butler, M.J.
Corporate Source: BNR Europe Ltd, Essex, Engl
Conference Title: Annual Meeting of the IEEE Lasers and Electro-Optics
Society
Conference Location: San jose, CA, USA Conference Date:
19931115-19931118
E.I. Conference No.: 19848
Source: Conference Proceedings - Lasers and Electro-Optics Society Annual
Meeting 1993. Publ by IEEE, IEEE Service Center, Piscataway, NJ,
USA, 93CH3297-9. p 26-27
Publication Year: 1993
ISBN: 0-7803-1263-5
Language: English

Descriptors: Electron beam **lithography** ; Integrated optoelectronics;
Diffraction gratings; **Optical waveguides** ; Semiconducting **silicon**

20/3,K/12 (Item 1 from file: 34)
DIALOG(R)File 34: SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

05078831 Genuine Article#: TN816 No. References: 7
**Title: DISTRIBUTED BRAGG GRATING INTEGRATED-OPTICAL FILTERS - SYNTHESIS AND
FABRICATION**
Author(s): WONG VV; FERRERA J; DAMASK JN; MURPHY TE; SMITH HI; HAUS HA
Corporate Source: SPECTRA DIODE LABS, 80 ROSE ORCHARD WAY/SAN JOSE//CA/95134
; MIT, DEPT ELECT ENGN & COMP SCI/CAMBRIDGE//MA/02139
Journal: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, 1995, V13, N6 (NOV-DEC
) , P2859-2864
ISSN: 1071-1023
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

, 1995
...Abstract: presented. We combine interferometric lithography,
spatial-phase-locked electron-beam lithography, x-ray nanolithography,
and **optical lithography** with silica-on-**silicon** waveguiding
substrates to define rib **waveguides** and grating patterns that have
multiple quarter-wave shifts along the grating length. Transmission
filters...

20/3,K/13 (Item 1 from file: 144)
DIALOG(R)File 144: Pascal
(c) 2004 INIST/CNRS. All rts. reserv.

14959278 PASCAL No.: 01-0111919

Heat-Resistant Polyarylates for Waveguide-Type Device Application
SUGIHARA Okihiko; TOMIKI Masahiro; FUJIMURA Hisashi; EGAMI Chikara;
OKAMOTO Naomichi; AKIZUKI Takamasa; SHIRAI Hiromasa
Faculty of Engineering, Shizuoka University, 3-5-1 Johoku, Hamamatsu
432-8561, Japan; Research and Development Center, Unitika Ltd., 23
Kozakura, Uji 611-0021, Japan
Journal: Japanese Journal of Applied Physics Part II : Letters, 2000
-11-15, 39 (11B) L1174-L1176
Language: English

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2000 -11-15

English Descriptors: Experimental study; **Optical waveguides** ; Organic
insulators; Polymer films; Thermal stability; **Glass** transformations;
Electron beam **lithography** ; Chemical structure; Sputter etching

20/3,K/14 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2004 INIST/CNRS. All rts. reserv.

14647833 PASCAL No.: 00-0319622
Chemical and biological applications of porous silicon technology
STEWART M P; BURIK J M
Purdue Univ, West Lafayette IN, United States
Journal: Advanced Materials, 2000 , 12 (12) 859-869
Language: English

2000

...English Descriptors: function devices; Application; Photoluminescence;
Surface chemistry; Crystal atomic structure; Biocompatibility; Biosensors
; Chemical sensors; Catalyst supports; **Lithography** ; **Optical waveguides**
; **Ellipsometry**; Bioreactors; Porous **silicon** ; Reviews; Bibliographies

20/3,K/15 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

04750939 **Image available**
IR OPTICAL WAVEGUIDE

PUB. NO.: 07-043539 [JP 7043539 A]
PUBLISHED: February 14, 1995 (19950214)
INVENTOR(s): SAKAGUCHI SHIGEKI
APPLICANT(s): NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese
Company or Corporation), JP (Japan)
APPL. NO.: 04-247127 [JP 92247127]
FILED: August 25, 1992 (19920825)

...PUBLISHED: 19950214)

ABSTRACT

... make a transparent film-like planar optical waveguide. Further, the
waveguide film is patterned by **lithography** and RIE to obtain a patterned
optical waveguide . By using germanium oxide **glass** , the obtained
optical waveguide can be connected to a fluoride optical fiber and has

no optical loss in a...

20/3,K/16 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2004 FIZ TECHNIK. All rts. reserv.

01245517 I98100847300
Passive optical waveguide devices by ion-exchange in glass
Santhanakrishnan, T; Sreedhar, PR; Sirohi, RS
Dept. of Phys., Indian Inst. of Technol., Madras, India
Optik, v109, n1, pp1-4, 1998
Document type: journal article Language: English
Record type: Abstract
ISSN: 0030-4026

1998
DESCRIPTORS: INTEGRATED OPTICS ; ION EXCHANGE; OPTICAL COUPLERS;
OPTICALLY SPECIAL GLASS ; OPTICAL WAVEGUIDES ; CATION; SILVER; SODIUM;
PERFORMANCE ANALYSIS; GLASS ; LITHOGRAPHY ; OPTICAL FABRICATION

20/3,K/17 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01152521 E97100979025
High efficiency focusing waveguide grating coupler with parallelogramic groove profiles
Liao, T; Sheard, S; Li, M; Zhu, J; Prewett, P
Univ. of Oxford, GB; Ruhterford Appleton Lab., Chilton, GB
Integrated Photonics Res., Postconf. Ed., Topical Meeting, Boston, USA, Apr 29 - May 2, 1996 1996
Document type: Conference paper Language: English
Record type: Abstract
ISBN: 1-55752-439-4

1996
DESCRIPTORS: OPTICAL COUPLERS; OPTICAL WAVEGUIDES ; BEAM FOCUSING;
SURFACE STRUCTURE; SILICON DIOXIDES; SILICON NITRIDE; SEMICONDUCTOR
TECHNOLOGY; E BEAM LITHOGRAPHY ; INDEX OF REFRACTION; EFFICIENCY FACTOR

20/3,K/18 (Item 3 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2004 FIZ TECHNIK. All rts. reserv.

01086592 E97031994063
Fabrication and performance of optical interconnect analog phase holograms made by electron beam lithography
(Phasenhologramme zur optischen Datenuebertragung durch Elektronenstrahlolithographie)
Marker, PD; Wilson, DW; Muller, RE
Jet Propulsion Lab., Pasadena, USA
Optoelectronic Interconnects and Packaging, Proc. of a Conf., San Jose, USA, Jan 30-31, 1996 1996
Document type: Conference paper Language: English
Record type: Abstract
ISBN: 0-8194-2017-4

1996

DESCRIPTORS: LIGHT COMMUNICATION; HOLOGRAPHY; E BEAM **LITHOGRAPHY** ; LIGHT
DIFFRACTION; ACRYL **GLASS** ; **OPTICAL WAVEGUIDES** ; HELMHOLTZ EQUATIONS;
FOURIER ANALYSIS; LINK FAULT

20/3,K/19 (Item 4 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management
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01009873 E96086744028

**An optimized LIGA/MEMS process for polymer waveguides on a linear
microactuator**

(Ein optimierter LIGA-Prozess fuer mikroelektromechanische Systeme (MEMS)
zur Herstellung von Wellenleitern aus Kunststoff auf einem linearen
Mikroaktor)

Ghodssi, R; White, V; Herdey, C; Archie, C; Denton, Dd; McCaughan, L
Univ. of Wisconsin, Madison, USA

Microstructures and Microfabricated Systems, Proc. of the 2nd Internat.
Symp., Chicago, USA, Oct 8-13, 1995 **1995**

Document type: Conference paper Language: English

Record type: Abstract

ISBN: 1-56677-123-4

1995

...DESCRIPTORS: SYNTHETIC MATERIALS; ACRYL **GLASS** ; **OPTICAL SWITCHES**;
OPTICAL WAVEGUIDES ; X RAY **LITHOGRAPHY** ; PHOTORESISTS; CHEMICAL ETCHING;
ULTRAVIOLET IRRADIATION; ACETONE; BENZENE; LOW PRESSURE CVD; HYDROXIDES;
SILICON NITRIDE; ELECTROPLATING; METALLIZATION...

20/3,K/20 (Item 5 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management
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00869192 E95046129063

**Sub-micrometer patterning of strip-ARROW structures by e-beam direct
writing**

(ARROW-Streifenstrukturen im Submikrometerbereich durch direktes
Elektronenstrahlschreiben)

Gehler, J; Braeuer, A; Karthe, W; Haase, N

Fraunhofer-Inst. for Applied Optics and Precision Engineering, Jena, D;
u.a.

Nanofabrication Technol. and Devices Integration, Lindau, D, Apr 13-14,
1994 1994

Document type: Conference paper Language: English

Record type: Abstract

1994

DESCRIPTORS: INTEGRATED **OPTICS** ; **OPTICAL WAVEGUIDES** ; STRIP LINES;
DIRECTIONAL COUPLERS; **SILICON** ; **SILICON DIOXIDES** ; SUBMICROMETER; E BEAM
LITHOGRAPHY

20/3,K/21 (Item 1 from file: 62)

DIALOG(R)File 62:SPIN(R)

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00417895

Strip diffuse waveguides on glasses, obtained by laser lithography

method

Glebov, L. B.; Dukel'skii, K. V.; Nikonorov, N. V.; Petrovskii, G. T.
Sov. J. Opt. Technol.; 56(5),322-323 (MAY 1989) CODEN: SJOTB

1989/05

Descriptors: **WAVEGUIDES** ; **GLASS** ; ION EXCHANGE; DIFFUSION;
LITHOGRAPHY ; **OPTICAL SYSTEMS** ; LASER BEAM APPLICATIONS; FABRICATION ;
INTEGRATED OPTICS ;

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